

Test info. \rightarrow 66pts \rightarrow Multiple choice, solving proportions, are Δ s \sim (name them), solving for x , short answer

*Make sure you know definition of $\sim \Delta$ s & the 3 \sim Rules

round to
nearest
hundredth

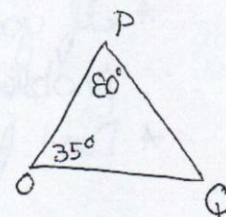
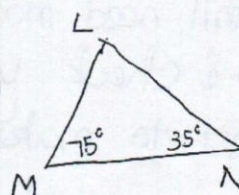
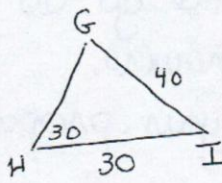
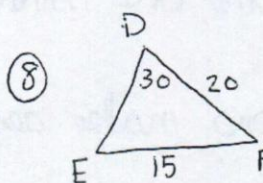
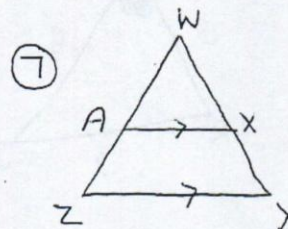
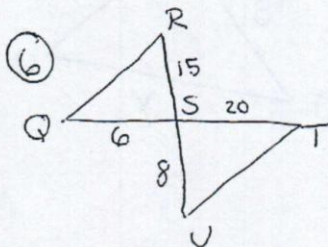
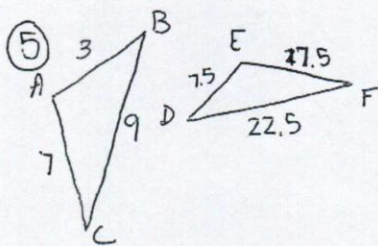
① $\frac{3}{8} = \frac{x}{12}$

② $\frac{x+5}{3} = \frac{4}{7}$

③ $\frac{2x}{x+10} = \frac{3}{2}$

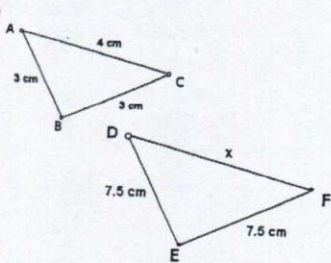
④ $\frac{x+4}{7} = \frac{2x+1}{10}$

are Δ s \sim ?
why?
name them.

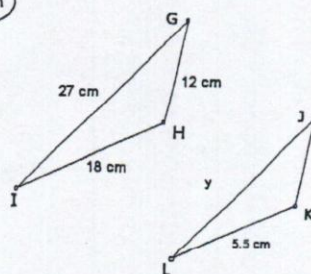


Solve for the
variable.

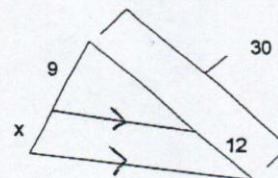
⑩ $\Delta ABC \sim \Delta DEF$



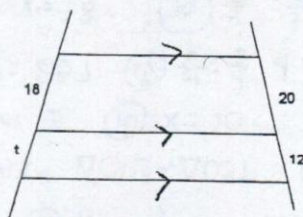
⑪ $\Delta GHI \sim \Delta JKL$



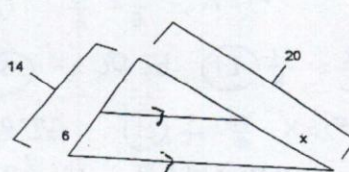
⑫



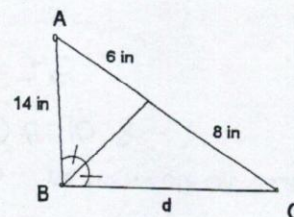
⑬

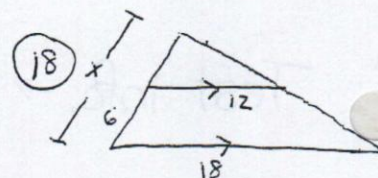
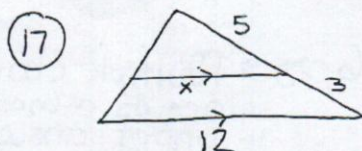
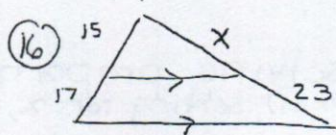


⑭

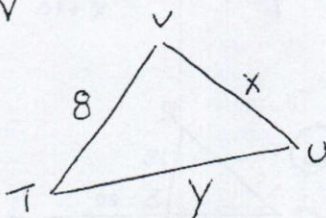
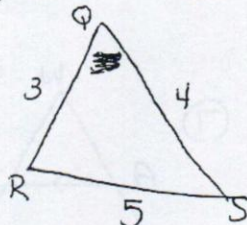


⑮





19 $\triangle QRS \sim \triangle TUV$



- * If you still need more practice go do some old homework problems & check your answers.
- * Don't forget to make sure your proportions make sense.

ANSWERS

- 1 $x = 4.5$ 2 $x = -\frac{7}{23}$ or -3.29 3 $x = 30$ 4 $x = 3.3$ 5 yes by SSS $\triangle ABC \sim \triangle DEF$
 6 yes by SAS $\triangle QRS \sim \triangle TUV$ 7 yes by AA $\triangle WAX \sim \triangle WZY$ 8 No... no such rule as SSA
 9 No... not \sim 10 $x = 10$ 11 $y = 8.25$ 12 $\frac{x}{\frac{12}{5}} = \frac{15}{12}$ $x = 6$ 13 $t = 10.8$
 14 $\frac{6}{20} = \frac{x}{8.57}$ $x = 8.57$ 15 $\frac{6}{14} = \frac{d}{18.6}$ $d = 18.6$ 16 $x = 20.29$ 17 $\frac{12}{x} = \frac{8}{5}$ $x = 7.5$
 18 $\frac{12}{x-6} = \frac{18}{x}$ $x = 18$ 19 $\frac{4}{x} = \frac{8}{5}$ $x = 10$ 20 $\frac{8}{4} = \frac{y}{3}$ $y = 6$